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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/027,338	12/21/2001	Thomas N. Turba	RA5412 (33012/330/101)	1579
27516	7590	10/05/2005	EXAMINER	
UNISYS CORPORATION			WU, YICUN	
MS 4773			ART UNIT	
PO BOX 64942			PAPER NUMBER	
ST. PAUL, MN 55164-0942			2165	

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/027,338

Applicant(s)

TURBA, THOMAS N.

Examiner

Yicun Wu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

*RCR filed on*

- 1) ☒ Responsive to communication(s) filed on 10 August 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

*W*

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**III. DETAILED ACTION**

1. Claims 1-25 are presented for examination.

**Response to Applicant' Remarks**

2. Applicant's arguments filed on 8-10-2005 with respect to the rejected claims in view of the cited references have been fully considered but they are moot in view of the new grounds of Rejections.

**Claim Rejections - 35 USC § 102**

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-25 are rejected under 35 U.S.C. 102(e) as being anticipated over Walsh et al. (U. S. Patent No. 6,810,429).

As to Claim 1, Walsh et al. discloses a data processing system having a user terminal coupled to a data base management System having a data base in a format incompatible with XML which accesses the data base in accordance with an ordered sequence of command language script via a publicly accessible digital data communication network, the improvement comprising:

a. a document containing a plurality of elements formatted in XML (extended markup language) (i.e. XML doc. Fig. 1b, item

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106, 126) generated by the user terminal transferred via the digital data communication network to the data base management system (Fig. 1b);

b. a document type definition (DTD) which defines the format of the document (i.e. DTD. Col. 9, lines 51-67) transferred from the user terminal to the data base management system via the publicly accessible digital communication network (Fig. 1b); and

c. an XML mapping tree defined by the DTD into which each of the plurality of elements mapped for use by the data base management system for entry into the data base (fig 1b and DTD. Col. 9, lines 51-67).

As to Claim 2, Walsh et al. discloses a data processing system wherein

at least one of the plurality of elements further comprises an attribute which is recorded within the XML mapping tree (col. 10, lines 55-67).

As to claim 3, Walsh et al. discloses a data processing system wherein

the DTD is transferred from the user terminal to the data base management system via the publicly accessible digital data

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communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 4, Walsh et al. discloses a data processing system further comprising a storage space in which the DTD is stored for future use (fig. 1b).

As to claim 5, Walsh et al. discloses a data processing system wherein the DTD location path is displayed on the user terminal as a window (fig. 1b).

As to claim 6, Walsh et al. discloses teaches an apparatus comprising:

a. a user terminal which generates an XML document (fig. 1b);

b. a Document Type Definition (DTD) which defines the format of the XML document (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 51- 67);

c. a publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67);

d. a data base management system which honors a service request by executing an ordered sequence of command language

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statements having an input format different from XML responsively coupled to the user terminal via the publicly accessible digital (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67) which receives the XML document and the Document Type Definition via the publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67); and

e. an XML mapping tree responsively coupled to the data base management system which parses the XML document in accordance with the DTD into the input format of the data base management system (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 7, Walsh et al. discloses an apparatus comprising:

wherein an internal representation of the XML element tree corresponding to the DTD is stored for future use (fig. 1b).

As to claim 8, Walsh et al. discloses an apparatus comprising:

wherein the XML document further comprises a plurality of elements and at least one of the plurality of elements has an attribute (col. 10, lines 55-67).

As to claim 9, Walsh et al. discloses an apparatus comprising:

wherein an internal representation of the XML element tree corresponding to the DTD is received by the data base management system via the publicly accessible digital data network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 10, Walsh et al. discloses an apparatus comprising:

wherein the publicly accessible digital data communication system further comprises the Internet (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 11, Walsh et al. discloses a method of interfacing an XML document to a data base management system having an incompatible input protocol comprising:

a. transferring the XML document and a Document Type Definition to the data base management system via a publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67);



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b. parsing the XML document into an XML mapping tree in accordance with the Document Type Definition (DTD) corresponding to the XML document (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- 67) and

c. presenting the parsed XML document to the data base management system for processing (Walsh et al. fig. 1b, 2, 4).

As to claim 12, Walsh et al. discloses a method further comprising the step of saving the internal representation of the XML element tree corresponding to the DTD for future use (Walsh et al. fig. 1b).

As to claim 13, Cheng et al. as modified teaches a method further comprising wherein the internal representation of the XML element tree corresponding to the DTD is retrieved from storage (Walsh et al. fig. 1b, 2, 4).

As to claim 14, Walsh et al. discloses a method wherein the XML document further comprises a plurality 2 of elements and at least one element has an attribute (col. 10, lines 55-67).

As to claim 15, Cheng et al. as modified teaches a method wherein the publicly accessible digital data communication

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network further comprises the Internet (Walsh et al. fig. 1a, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 16, Walsh et al. discloses an apparatus comprising:

a. transmitting means for transmitting an XML document (fig. 1b);

b. stating means for stating a DTD associated with the document col. 9, lines 57- 67) and transmitting the DTD associated with the document via the transmitting means (fig. 1b, 2);

c. providing means responsively coupled to the transmitting means (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- 67) for providing data base management functions; and

d. composing means responsively coupled to the providing means for composing the XML document from an XML mapping tree and data in the data base management system based upon the DTD fig. 1b, 2, 4 and col. 9, lines 57- 67).

As to claim 17, Walsh et al. discloses an apparatus wherein the composing means further comprises means for storing the parsed XML document for future use (fig. 1b, 2, 4 and col. 9, lines 57- 67).

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As to claim 18, Cheng et al. as modified teaches an apparatus wherein the XML document further comprises a plurality of elements and at least one of the plurality of elements has an attribute (col. 10, lines 55-67).

As to claim 19, Walsh et al. discloses an apparatus wherein the transmitting means further comprises the Internet (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 20, Walsh et al. discloses an apparatus further comprises displaying means for displaying a pathway for the DTD storage location (Walsh et al. fig. 1b, 2, 4).

As to claim 21, Walsh et al. discloses an apparatus for storing an XML document in a data base having a legacy format not compatible with XML (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67) comprising:

a. A user terminal which generates the XML document (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67);

b. a Document Type Definition (DTD) which defines the format of the XML document (fig. 1b, and col. 9, lines 57- 67);

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c. A legacy data base management system having a data base in the legacy format which receives the XML document from the user terminal responsively coupled to the user terminal via a publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67); and

d. an XML mapping tree responsively coupled to the data base management system which parses the XML document in accordance with the DTD into the legacy format of the data base (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 22, Walsh et al. discloses an apparatus for storing an XML document wherein the user terminal transfers the Document Type Definition (DTD) to the legacy data base management system via the publicly accessible digital data communication network (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 23, Walsh et al. discloses an apparatus comprising

a repository within the legacy data base management system for storing the XML mapping tree (Walsh et al. fig. 1b, 2, 4 and col. 9, lines 57- col. 10, lines 67).

As to claim 24, Walsh et al. discloses an apparatus comprising

a window for display of the DTD on the user terminal  
(Walsh et al. fig. 1a, 2, 4 and col. 9, lines 57- col. 10,  
lines 67).

As to claim 25, Walsh et al. discloses an apparatus  
wherein the publicly accessible digital data communication  
system further comprises the Internet (Walsh et al. fig. 1b, 2,  
4).

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Conclusion


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yicun Wu whose telephone number is 571-272-4087. The examiner can normally be reached on 8:00 am to 4:30 pm, Monday -Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 571-272-4146. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Yicun Wu  
Patent Examiner  
Technology Center 2100

September 30, 2005

  
JEFFREY GAFFIN  
SUPERVISORY PATENT EXAMINER  
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